



LOCTITE® Superflex® SpeedSeal™

June 2010

PRODUCT DESCRIPTION

LOCTITE® Superflex® SpeedSeal™ provides the following product characteristics:

Technology	Silicone
Chemical Type	Acetoxy silicone
Appearance (uncured)	Clear paste and lump free ^{LMS}
Components	One component - requires no mixing
Viscosity	Thixotropic paste
Cure	Room temperature vulcanizing (RTV)
Application	Potting, Coating or Sealing

LOCTITE® Superflex® SpeedSeal™ is designed to create a tough, watertight, mildew resistant seal. It has a fast-dry system that withstands water contact 2 hours after application. LOCTITE® Superflex® SpeedSeal™ withstands temperature extremes of -34 to 204 °C and is highly resistant to ultraviolet light and other environmental elements. This product forms a weatherproof bond to materials like glass, ceramics, aluminum, primed steel and some plastics.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.02 to 1.07 ^{LMS}
Flash Point - See MSDS	
Extrusion Rate, g/min:	
Pressure 0.63 MPa, time 2 hours, temperature 25 °C:	
Semco Cartridge	≥130 ^{LMS}
Flow, ISO 7390, mm:	
After 2 minutes	≤12.7 ^{LMS}

TYPICAL CURING PERFORMANCE

Tack Free Time

Tack Free Time is the time required to achieve a tack free surface:

Tack Free Time, minutes:	
Cured @ 25 °C / 50±5 % RH	8 to 10 ^{LMS}

TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 7 days @ 25 °C / 50% RH

Physical Properties:

Shore Hardness, ISO 868, Durometer A	≥11 ^{LMS}
Elongation, at break, ISO 37, %	≥400 ^{LMS}
Tensile Strength, ISO 37	N/mm ² ≥0.8 ^{LMS} (psi) (≥116)

After 2 hours @ 25 °C / 50% RH

Physical Properties:

Cured Thickness, mm	≥2.5 ^{LMS}
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GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Directions for use:

1. For best performance bond surfaces should be clean and free from grease.
2. Full performance properties will develop over 7 days.
3. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.
4. Press or firmly clamp parts together. Do not slide parts together.
5. Excess material can be easily wiped away with non-polar solvents.
6. Excess cured material can be removed with a knife or single edge razor blade.

NOTE: Do not use LOCTITE® Superflex® SpeedSeal™ for gasketing carburetors or fuel control devices where it will be in constant contact with hydrocarbon fuels. Material will develop excessive swell and loss of mechanical properties.

Loctite Material Specification^{LMS}

LMS dated January 12, 2009. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Note

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Reference 0.1